FLIES CAN BE ROUTED

University of Oregon Man Would Catch Practically All Original Pairs With One Exterminator.

ALSO ADVOCATES MAKING HATCHING PLACES UNTENABLE

Believes It Possible to Capture All of Original Pairs With Fly Exterminator at Each Barn.

Mr. Groceryman, Mr. Farmer, Mr.

then? Five dollars, \$50, \$150?

effort, and with expenditure of prac-

The authority for this statement is Dr. Clifton F. Hodge, professor of social biology at the University of regon. Dr. Hodge, who is by now too well-known over the state to be regarded as a visionary, is devoting his thick, we shall need: entire time to certain advances in the state along lines of civic biology. Among these is the elimination of flies.

The experience of other communities has demonstrated that a condition of freedom from flies is not an Arabian Nights dream. The cities of Worcester, Cleveland, Washington, Baltimore, Johannesburg, South Africa, the Panama canal zone, and many other places have proved the entire feasibility of subduing flies. Of course, there are still flies in Cleveland and in Washington and in Baltimore and in Johannesburg, but whole sections of these cities have been made entirely free, and had the co-operation all over as it was in these districts, the whole putting of theme together is much cities would have bee afree. It is simpler than writing a description of possible for one section of a city to become flyless where another section may still be fly-ridden, because a fly does not commonly travel farther than 1.2 inch down and 1 inch in-to hold Hodge's time will permit it available 1.500 feet during its lifetime.

The success of Dr. Hodge's fly

will consistently follow directions," strips 1-4 inch, this will leave a 1-4 has been pronounced feasible and rea- the bottom strips. several other Oregon cities. It should top. hy so means be confined to cities, towns and villages, however; every

Pass it on to yourselves.

begins to come, there are comparatively strips, few flies. To raise additional flies, Figure this problem for yourselves; a 1-2 inch.

April 10, 152 flies. June 10, 34,302 flies. July 10, 72,820,800 flies, August 1, 5,746,670,500 files-143,675 wire.

bushels of flies from a single pair.

"In other words, do this:

hmrn."

How to Make Fly Trap. Dr Hodge gives the following direc-

erawl up toward the light (unless melt several or all are made.

to oviposit, when they may crawl down | bottom board-so that the trap can ward into dark cracks.) Hence, by lifted off to bait, if necessary. arranging cracks and holes in screen wire pointing upward, we can trans this plan. DECLARES DR. HODGE wire pointing upward, we can transeracks or holes at the top through

worth to you to have your place of windows covered by hanging gunny next summer. business or your kitchen free from flies sucks over them. These cost no more Study and observe baits to which

means of a little co-operation and If the stable and cellar are widley mosquitoes and posibly bot flies. open and full of cracks, the trap should The house fly hatches from an egg, tically no money at all, how about it? be made without bottom board and set laid usually in horse manure; passes Will you follow the prescribed course over a ridge of attractive bait on the through the magget and poparial and spend your first summer free from manure pile or in the most likely place stages, and may emerge as an insect, the fly plague! If you will, it can about the barnyard, and all other fly fully grown in 10 days. Then it comes

Specifications,

Suppose the trap is to be 26 inches

Two hanlf-inch boards, 12 inches ably 8 or 10 days, it has laid at least wide and 80 inches long, for the ends. six batches of eggs. Four strips one-half inch by 1 inch, 26 inches long for top frame and for

the bottom. Two strips, one-half inch by 1 inch, 10 inches long, end pieces of top frame. to go between the ends at top, and ply to the land daily. The material Two strips 1x1 inches, 25 inches long four similar strips 10 inches long to will then dry or disintegrate too cleat end boards at top and bottom. Two strips 1-2x1-2 inch, 26 inches gots to grow in it. long, to support wire at bottom.

inches wide.

With these things all collected, the how it is done.

Directions for Making.

1. Notch top corners of end boards top frame in place.

2. Cut out bottom corners of end community campaigns can be under plan in eastern communities was such boards to receive the bottom strips- taken by the civic authorities, by com- Increase of 274 Per Cent in Year, Acthat this winter letters are pouring in on outer side of each board make a mercial clubs, by women's organizaupon him from nearly every sivilized notch 1-4 inch deep and 1-2 inch wide, tions or by organizations formed espe country requesting instructions. He the top of which is I inch from bottom cially for the purpose. In all cases of board. Then 1-2 inch in cut a the aid of school authorities should be notch 1-2 inch wide and one inch up, enlisted. Methods the first season BAILROADS SHOW GAIN IN "Any community in Oregon may be- When these strips are nailed in, by may not be wholly effective, but we come flyless, or practically so, if it cutting in the ends of the 1-2 inch may learn from experience for 1915.

farm is a community by itself, so far off a piece, across roll, 19 inches long proposition in 1915! as flies are concerned, and every farm- and fold over raw edges very flat 1-2 house and farmyard, if another careless inch along each side. Then fold and farmer does not live within, say, 3 charply along middle line. Suip in quarter of a mile, can become so nearly 1.2 inch at fold at either end and bend flyless as to make this summer of flaps outward so that the piece, when "Here is the theory of this plan: trap, and fit smoothly inside. Tack ing before Interstate Commerce Com- public. the end flaps to end boards so that the

6. Cut wire for sides about 32 each female must follow certain inches long and wire for top frame 12 methods. These methods are known, inches wide. Fold down raw edges

eral menths and to produce six batches open, two inch pleats extending into curtly adjourned the hearing. of eggs at intervals of from eight to the trap and pointing slightly upward. ten days, consisting of from 120 to To make these, lay out a side piece on 150 eggs at a batch, and in 10 days these a smooth table or floor and fold over RUB SORE, LAME BACK eggs are flies. Beginning, say, April squarely across piece 12 inches from bottom end, and fold back two inches higher up. Make a similar pleat about 12 inches above the first. This will make two trap folds across the side

8. Saip about 1-2 inch into the wire "Why not put that pair out of busi- 6 inches below top of each pleat and ness April 17 (or May 1, according to at each angle of pleat and bend the season and locality, i. e., as long as 1.2 inch flaps back so that the folds quarters in any particular section.) edges are tacked to the end boards, aches and twinges? Now listen! sources other than transportation. "Make the hatching places nates tacking proceeds up the southing penetrating "St. Jacobs Oil." making the total rail revenue \$29,463, nearly correct as fallible human judg. That the commission largely de-"I believe it possible to capture they are not sharper than about 45 ness and stiffness so quickyly. You to Oregon amounts to \$19,261,500,90, practically all original pairs with one degrees. The flies will not crawl up simply rub it on and out comes the leaving a net operating revenue for

diameter every two inches in trap small trial bottle from any drug store, \$8,632,743.82. tions for making and using stable win- folds and every inch along crest of and after using it just once, you'll The principle upon which fly traps punches or lee picks or large spikes lumbago or sciatica, because your back the state is given as 3,278, of which work performed down to December 15, over the weights of shipments. are newally made is that flies tend to so as to keep the holes open until will never hurt or cause any more 426 is electric road mileage. Increase 1913, and valuation investigations Refunding of Overcharges.

ing food by smell, or a place in which | 11. If used in a window, fit a loose been recommended for 60 years.

Traps of any size can be made

Thirty-Seven Quarts in Week, The first model of this trap merely which a fly can escape, into an effect- set on a pile of filth where flies were ive fly trap. For the top of such a swarming, caught 37 1-2 quarts in one box trap a light frame covered with week without bait or attention of any screen wire is better than wide board, kind. If it is possible to trap the because it lets in the light, and it is breeders at this rate, it would seem less likely to spring or warp and so unnecessary for any farm or stable open emcks through which the flies yard to suffer longer unde a plague

For use in a stable window these This form of trap works well, but traps may be made of any size to fit anyone is welcome to make a better the opening, or they may be made one. It is probably the simplest, most smaller than the opening and the rest inexpensive and effective trap so for of the space fitted with boards or designed. Boys, in connection with gunny sacking. The trap for a stable their manual training, can make models should be fitted to the most likely for demonstration and can fit up the window of stable or stable cellar-the stables and barnyards of their neighwindow on the sunny side, out of the borhoods, and if this is thoroughly done Householder, how much would it be way of prevailing winds, and the other there may be no need of serven doors

than if hung elsewhere for the time; flies are most strongly attracted; fish Make an estimate in dollars. Con- they flap in the wind and so need not or poultry cleanings, milk, except sider the value of food damaged or interfere with ventilation, and they where flies have access to it about spoiled by flies; consider the season's darken the other windows so that all dairies where hogs are fed. In such comfort, of yourselves, your families flies about the stable will try to get places a mash mixed with yeast and and your stock; consider the niceties in or out by the trap window and will fermenting actively will attract them of living; above all, consider the dan be caught going or coming. If care most powerfully. Crab shells will atger to your baby's life, if you have a fully worked, early in the season, the tract flies from almost everything else. baby ; consider the possibility of the animals being kept in during the heat Any farmer can make this trap with doctor's bills. How much is it worth of the day, for a few consecutive days a little box lumber and some screen now and then, it is possible practically wire. It will pick up the breeders as Now if you and your neighbors sud to rid a barnyard of stable (infantile fast as they come to the premises, not denly are told of a practicable plan to paralysis flies) horn and black flies only of common house flies, but of get rid of fly pest this summer by that are not attracted to baited traps, stable and horn flies, black flies,

> foods kept out of the way as far as to the houses to feed, and buzzes about over an area of about 500 yards diameter for from 10 to 14 days before it matures its first batch of 120 to 150 wide, 30 inches high and 12 inchtes eggs. It then continues to feed and fly about until, at intervals of prob-

> > Attack on Breeding Places. To attack these breeding places, the following should be followed, says Dr.

1. If possible, arrange to clean the stable into a manure spreader and aprapidly for eggs to hatch and for mag-

2. Store in a shed with window About eight feet of screen wire 26 fitted with fly trap. Have concrete floors so that the maggots cannot bursuitable nails and upholstering row into the ground to pupate, and the manure can be cleaned at least once a week.

3. If neither of these methods is feasible, arrange window and baited traps to pick up the breeders as early in the season as possible and as fast as they appear in the premises.

Such practical personal help as Dr. for any Oregon community. Flyles:

"A Flyless Oregon," may sound like says Dr. Hodge. "The plan already inch erack opening upward between a Utopian slogan, but Medford has al- Report Proceeds to Discuss Principles ready adopted as its slogan, "The Flysombly easy by Medford, Portland and 3. Nail the lineh by linch strips les City," and has set out to make Engene, and is under consideration in between shoulders of end boards at good on it. Any other community in the state can do as much; any farmer can do as much. Then how about a 5. Square up end of wire and cut really flyless Oregon-as a booster

EVIDENCE OF LAMAR IS

[UNITED PRESS LEARED WISE.]

With a Small Trial Bottle of Old St. Jacobs Oil.

end boards pull open trap folds so that Nothing else takes out soreness, lame 012.09. The operating expense assigned ment will permit."

OVERSTOCK!

Creditors Make Demands

That's the story---that's the reason for this stupendous Shoe Sale. Never before in the history of the west have GOOD SHOES been sold so cheap. Remember, our stock is clean and fresh. All our odds and ends have been put on tables at ridicuously low prices. Can we raise \$2000 in 10 days? WE SAY YES! Prices such as these will do it.

Lot 1

Women's and Children's Shoes and Oxfords .

All our odds and ends. Most all the sizes. Come, take your choice.

Lot 2 Women's Dress Shoes \$1.85

Lot 3 Women's \$3.50 and \$4.00 Shoes

\$2.45



220 N. Commercial St. Salem, Oregon

Lot 4 Men's Dress Oxfords--Regular Price is \$4.00 \$1.95

Lot 5 Men's \$4 and \$5 Shoes

\$2.45

Lot 6

Boy's Dress or School Shoes, Solid Long Wearing Shoes

\$1.85

Don't be skeptical! Don't let the strong facts of this ad make you suspicious or afraid. Our necessity is your gain. Come! Bring your friends. Get your share of wonderful bargains.

220 North Commercial Street

Salem, Oregon

RAILROAD COMMISSION

cording to Annual Report Just Made Public in Salem.

THEIR OPERATING REVENUE.

Applied tot Making the Rates of Public Utilities.

gether with steady growth of railroad making, as required by the law and by 1914 infinitely pleasanter than that of opened to a right angle, will form a the "wolf of Wall street," admitted commission for the year ending Deceme it must proceed upon a reasonable apridge, or roof over the bottom of the this afternoon at the steel trust hear ber 15, 1913, which has just been made plication of the laws governing the 274 per cent, indicates in a degree the as possible, looking to final hearing."

missioner Harlan that practically all Chairman Frank J. Miller and his around modern industrial conditions. States Steel coproration of rebats from of the year's work, have naturally at all, as has been attempted in some between formal and informal procedfly has been known to live for sev. 7. The trap folds of the sides are against it. On his admission Harlan ress made in the new duties assigned in confusion and disaster. by the public utilities act.

Operating Bevenue.

\$8,777,926.56 from passengers, \$380,-

Railroad Mileage.

lowned is 64 miles, and 47 additional those of the Portland Railway, Light for refunding \$4,423 to shippers be Wednesday.

applied to the making of rates, saying: Willamette valley. Problem of Rate Making.

"It was early apparent that considerable time would be required be report says: complex relations that have grown up expansion of the commission's work."

"So if in some instances the work further. ridge and side wire in place with some the moment you rub your back with state revenue, being \$14,597,156.56, demonstrably correct—that is just so and railroads themselves.

Utility Companies Listed.

fly exterminator at each house or to the holes if the folds are too sharp, pain. It is perfectly harmless and the milroad balance sheets of \$10,201, panies have been listed under the juris- points advanced. In the one branch D. Fit top frame and nail in cleats, doesn't burn or discolor the skin. 532.19. As the taxes totalled \$1,568, diction of the commission and consider of track scale inspection, the expense

miles are shown to have been placed & Power company, Coos Bay Water cause of overcharges or of special cirin operation. The electric roads show company, St. Johns Water Works & cumstances appearing to justify rewell in revenues in proportion to their Lighting company, Rogue River Water paration. Railroads and other carriers mileage, the 426 miles of electric line company of Grants Pass; Home Tele have filed 580 passenger and 475 freight having yielded \$1,643,680,28 in net phone & Telegraph company of south schedules with the commission, and the operating return, after deducting over orn Oregon, and the Salem Water, utilities have added 469 rate schedules half a million dellars in taxes, or Light & Power company. Water during the year. about twice the return per mile, taken plant valuation is under way at Dallas, collectively, made by the steam lines. also valuation of the Pacific Telephone Reviewing the great amount of work & Telegraph company's plant at Ore- Power company," says the report, "is required to propery classify the utili- gon City, and it is stated that sub- the largest single task ever undertaken ties of the state, 1913 being the first stantial reductions have been secured by the commission. The rates charged year that electric, gas, water, telephone in light and power rates, without neces- and service rendered by this company and street railway companies have been sity for formal proceedings, in Dallas, directly affect not less than one-third

Disposition of Complaints. **As winter breaks up and spring edges can lap over the outer 1-2 inch the evidence he had given concerning colleagues, Thomas K. Campbell and The blind fixing of rates, upon inadethe alloged acceptance by the United Clyde B. Aitchison, in telling the story quate information, or on information is reported in detail, and the distinction railroads and steamship companies in covered a much broader field than instances within the public memory, are explained, the former being matters which he said it was interested, were usual, and the report is especially in- cannot be defended either in law or in in which hearings are required to covered in the pending dissolution suit teresting in its explanation of the prog- equity, and has nearly always resulted thresh out questions of rates or service, the informl being taken up for adjust-"The commission has therefore been ment on a more statement of the grievconstrained to proceed only over ance. Of the informal matters, 251 The net operating revenue of all of ground that has been prospected and out of 370 of those relating to railthe railroads of the state for the year tried. It is not bound by technical roads were satisfactorily settled, 27 gations, scope of work under the utiliending June 30, 1913, was \$8,632,743.82, rules, and it does not need to adhere are pending, 22 were dropped because ties act, methods of utility valuation, STOPS PAIN AT ONCE counting some 50, 1913, was \$5,032,743.82, rules, and it does not need to adners are pending, 22 were dropped because the report shows, a gain of \$686,156.25 to outworn precedents unfitted to the of lack of purisdiction. Of the utility over the figures for the previous year, lay, but it has refused to depart from matters handled in like manner, 90 out Total operating revenue of all roads the reliable rules of progress; investi of 135 are reported settled, 10 transon state business was \$14,865,885.53, of gation, information, sanity, success. ferred, 5 pending, and 35 dropped be-Rub Backache and Lumbago Right out which \$5,160,464.78 came from freight, Does Not Figure on Guess Work. cause plalintiffs did not wish to go

626.44 from other passenger train reve has seemed slow, it is nevertheless Prominence is give to efforts by the between the operators and coal miners Back hurt you? Can't straighten up nue, \$233,429,75 from other transportableing advanced as fast as facilities, commission to reduce the number of of western Pennsylvania, Ohio, West flies continue to emerge from winter out drop smoothly into the trap as the without feleing sudden pains, sharp tion services, and \$311,438 from funds and eigenmentances will permit perilous crossings of railroads and Virginia, Indiana and Illinois widened Accuracy, not guesswork, is required, highways. It is declared that many yesterday when the operators fintly re-Begin tacking at bottom corners, tack That's lumbago, sciatica or maybe from Oregon's proportion of interstate and it is essential that the findings of dangerous conditions can be eliminated fused wage increases demanded by the "Capture the original pairs in early along bottom strip, holding bottom a strain, and you'll ge blessed relief railroad revenue is almost equal to the the commission, when made, shall be with the co-operation of county courts United Mine Workers of America. In-

creases the work of the courts by duction in all classes of mine labor. handling maters which otherwise would It is stated that 226 utility com- develop into lawsuits is one of the

"Valuation of the physical property of the Portland Railway, Light & under regulation by the state, the re- Monmouth, lindependence, Junction of the people of the state, and it is port proceeds to discuss the principles City, Corvallis and other towns of the only by a comprehensive investigation that the numerous complaints arising in Concerning the business handled by connection with the rates and service the commission during the year the fo this company can be placed on a basis for equitable and satisfactory ad-"Listing of the complaints filed justment. The commission's experts larger utilities of the state could be shows 352 informal railroad complaints, have been employed upon this matter Regulation of public utilities, to properly considered and solved. Rate compared with 301 filed in 1912. The so far as their other work would pernumber of formal railroad matters filed mit, and outside experts have been business, has increased the work of sound public policy is not a matter of was 59, compared with 47 the previous specially engaged in order that the inthe railroad commission of Oregon just guess work. To be upheld by the year. In the utilities branch, 183 to vestigation might be advanced as ALREADY COVERED IN SUIT. 274 per cent in one year, measured by courts, to be permanent in results, to formal complaints and 70 formal matthe volume of formal complaints be just, alike to the public and to the ters were docted. The increase in total of the advantage accruing from conhandled. This is one of the features corporations concerned, it must be number of formal complaints, which in sultation and counter-check in a work Washington, March 5.—David Lamar disclosed by the annual report of the founded upon exact information, and most cases have necessitated hearings, of this magnitude. Steady progress is

> Other Cases Covered. Other topics covered by the report, aside from the statistical portion, are cases that have been appealed to the courts, proceedings before the interstate commerce commission, manner of handling complaints, grade crossing problems, demurrage rules, railroad valuation, improvement of Corvallis & Eastern milroad between Corvallis and Yaquina, train delay reports, suspension of railroad tariffs, accident investi-

WAGE INCREASES REPUSED.

Dubois, Pa., March 5,-The breach stead of meeting the demands, the operators insisted upon a 10 per cent re-

NO REPORT ON DORR CASE. [UNITED PRESS LEANED WITE.]

10. Punch holes about 1-4 lach in Limber up! Don't suffer. Get a 788.37, the clear net return stands at able progress made in the valuation of of which is borne by the railroads, it board had not yet reported the result several of the larger utilities, this is stated there has been a decrease of of its investigation into the merits of being necessary before rates are fixed. 65 per cent in claims presented to the the petition for elemency submitted by bottom ridge. Use a number of forget that you ever had backache, Te total railroad mileage operated in The report brings the narrative of the railroads growing out of controversies William Dorr of Stockton, Cal., accused of murdering his uncle, James Marsh. at Lynn. It was expected the report misery. It never disappoints and has in mileage in the state in the line stated to be nearing completion are Orders were made during the year would be filed with the governor next